

Having thus, described the invention, what is claimed is:

1 1. A supplemental air cleaner layout structure for an all-terrain vehicle, in which a
2 fuel tank and a seat are mounted above a body frame in a front-to-rear direction in this order,
3 an internal combustion engine is mounted on a lower portion of the body frame, a carburetor
4 is attached to the internal combustion engine, a main air cleaner for filtering an air to be
5 supplied to the internal combustion engine is attached to the carburetor, while the carburetor
6 is provided with an air passage for exerting an atmospheric pressure on a level of a fuel in a
7 float chamber of the carburetor, and a supplemental air cleaner is provided additionally on an
8 end portion of the air passage, said supplemental air cleaner being characterized in that it is
9 disposed above said internal combustion engine, and above and anterior to said carburetor
10 and said main air cleaner.

1 2. An all-terrain vehicle , comprising:
2 a frame body,
3 a fuel tank mounted to the frame body;
4 a seat mounted to the frame body;
5 an internal combustion engine mounted on the frame body and comprising a
6 carburetor;

7 a main air cleaner operatively connected to said carburetor;
8 an air vent passage for exerting atmospheric pressure on the level of fuel in a float
9 chamber of said carburetor; and
10 a supplemental air cleaner disposed above said internal combustion engine, and
11 above and anterior to said carburetor and said main air cleaner, said supplemental air cleaner
12 being in fluid communication with said air vent passage;
13 whereby said supplemental air cleaner is substantially protected from upward
14 ambient fluid splash by said engine, said carburetor, and said main air cleaner.

1 3. The supplemental air cleaner layout structure according to claim 1, wherein said
2 supplemental air cleaner is disposed behind said fuel tank and below the seat.

1 4. A supplemental air cleaner apparatus according to claim 1, wherein said
2 supplemental air cleaner is disposed behind the fuel tank and below the seat.

1 5. A supplemental air cleaner apparatus according to claim 2, wherein said
2 supplemental air cleaner comprises a substantially funnel-shaped intake port having a wide
3 top portion and a narrow bottom portion comprising an inlet tube located substantially below
4 a side edge of said top portion.

1 6. A supplemental air cleaner layout structure according to claim 1, wherein said
2 supplemental air cleaner has an air intake provided facing downwardly in a lower rear portion
3 thereof.

1 7. A supplemental air cleaner apparatus according to claim 6, wherein said
2 supplemental air cleaner apparatus further comprises an air intake tube which faces
3 downwardly, and in biased relation toward the rear part of the body.

1 8. A supplemental air cleaner apparatus for use on an all-terrain vehicle, said
2 supplemental air cleaner apparatus comprising:
3 a substantially dome-shaped case with an outlet pipe integrally formed thereon;
4 a porous filter that fits inside of the case;
5 a substantially funnel-shaped intake port which attaches to a lower portion of the
6 case.

1 9. The air cleaner apparatus of claim 8, wherein the case includes a substantially
2 cylindrical filter storing portion for storing the filter, and a connecting portion formed with an
3 annular groove therearound.

1 10. The air cleaner apparaus of claim 8, wherein the intake port comprises a wide top
2 portion and a narrow bottom portion comprising an inlet tube located substantially below a
3 side edge of said top portion.

1 11. The air cleaner apparatus of claim 9, wherein the intake port is a substantially
2 funnel-shaped member, including an engagement portion at an upper end thereof, formed
3 with an annular rib extending therearound for engagement with the inside of the case.